

INVISISIL™ TSJ3150 SILICONE JUNCTION COATING

Description

INVISISIL TSJ3150 is a transparent, one component, heat curable silicone junction coating for semiconductors.

Key Features and Typical Benefits

- One component product - no mixing required-easy to use
- Excellent light transmission
- No cure by-products, low linear shrinkage
- Can relax stress to wire, pellet
- Protects against ionic impurities pollution to the surface of the semiconductor devices.

Typical Physical Properties

<u>Property</u>	<u>Unit</u>	<u>Value</u>
Uncured Properties		
Appearance		Light Yellow, transparent liquid
Viscosity(23 °C)	Pa·s	1.2
Cured Properties (cured 4 hours at 150 °C)		
Hardness (Type A)		12
Density	g/cm ³	0.97
Adhesion Strength (Al to Al)	MPa	0.2
Dielectric Strength	kV/mm	21
Dielectric Constant (60Hz)		2.7
Dissipation Factor (60Hz)		0.001
Volume Resistivity	Ω·cm	1.0 x 10 ¹⁵

Typical physical properties are average data and should not be used as or to develop product specifications.

Processing Recommendations

Compatibility

TSJ3150 silicone junction coating will cure in contact with most clean, dry surfaces. However, certain materials, such as butyl and chlorinated rubber, sulfur-containing materials, amines, and certain metal soap cured RTV silicone rubber compounds can cause cure inhibition. Cure inhibition is characterized by a gummy appearance of the TSJ3150 silicone junction coating at the interface between the adhesive and the substrate to be bonded. It is recommended that a sample patch test be performed with the TSJ3150 silicone junction coating to determine substrate compatibility.

Surface Preparation

The adhesive performance of any polymer system is highly dependent upon proper surface preparation. In order to maximize the adhesion of TSJ3150 silicone junction coating and minimize the potential for cure inhibition, all parts should be as clean and dry as possible prior to the application of the coating.

Availability

TSJ3150 is available in 500 g bottles in a case of 10.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated

specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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